

## **APPENDIX A. ONGOING FEDERAL, NON-FEDERAL, AND LOCAL FLOOD DAMAGE REDUCTION AND ENVIRONMENTAL RESTORATION STUDIES AND PROJECTS**

This appendix provides a partial list with accompanying summary description and status of ongoing flood damage reduction and ecosystem restoration studies and projects, as of the end of March 1999, in the Sacramento and San Joaquin River basins by the Corps, the State, and local interests. The listing is alphabetical.

**Note:** The major regional programs underway (e.g., CALFED) are described in Appendix G.

**American River Project** - This project is in the construction phase for the common features authorized in WRDA 96. It is in the Preconstruction Engineering and Design (PED) Phase for the remainder of the project. The DWR and Sacramento Area Flood Control Agency (SAFCA) serve as the local sponsors for both phases. Construction continues with slurry walls in the American River levees and analysis to reimburse SAFCA for work already performed. PED involves working with Congressional delegations to ultimately determine the remainder of the proposed plan. Flood protection structures are needed in addition to the Folsom modifications.

**Arroyo Pasajero** - A Draft Feasibility Report and an Environmental Impact Statement (EIS) was completed in March 1999. Two plans will go through EIS review, Gap Dam and an enlarged west side detention basin with over chute of California Aqueduct, to provide protection to Coalinga and the California Aqueduct. Public review will help to select the preferred plan. The Department of Water Resources (DWR) is the local sponsor for this study.

**CALFED Ecosystem Restoration Program** - The Comprehensive Study is coordinating work with CALFED to identify those actions being considered by the Ecosystem Restoration Program that can be integrated with flood damage reduction measures to achieve objectives of the CALFED and Comprehensive Study programs.

**City of Folsom** - FY-99 New Start Reconnaissance Study was initiated in January 1999.

**Clear Lake Basin** - A Section 503 Feasibility Study. The Section 905b Report was approved in August 1997. The Project Study Plan (PSP) is under preparation by a contractor and is scheduled for completion in June 1999.

**Colusa Basin Integrated Resources Management Program for Flood Control** - The Colusa Basin Drainage District is currently partnering with the Bureau of Reclamation to develop a programmatic EIS/EIR that covers an integrated resources management approach for flood protection in the Colusa Basin. This program looks at new structural facilities, improved operation and maintenance of existing facilities, and new non-structural facilities to correct flooding and related environmental resource problems in the Colusa Basin. To date, the District

has prepared a Purpose and Need Statement and Notice of Intent/Notice of Preparation of NEPA/CEQA documentation. It also has held scoping meetings, and prepared a Scoping Report. Currently, the District is preparing a Technical Report that will be used in the feasibility phase of the study; the Draft Environmental Impact Statement/Environmental Impact Report is scheduled to be completed in April or May 1999.

**Cosumnes/Mokelumne** - The study focuses on ecosystem restoration and non-structural measures in the lower portions of the Cosumnes and Mokelumne Rivers. A recommendation for separate feasibility studies is targeted for each river. The 905b Reconnaissance report was completed in February 1999. Potential local sponsor for the Mokelumne Study is East Bay Municipal Utility District (EBMUD); for the Cosumnes River, the potential local sponsors are The Nature Conservancy (TNC), Sacramento Area Flood Control Agency (SAFCA), or a partnership of the two.

**Central Valley Project Improvement Act (CVPIA) Restoration Actions** - The Comprehensive Study is coordinating efforts with the Fish and Wildlife Service and the Bureau of Reclamation to identify those actions being considered by the CVPIA programs that can be integrated with flood damage reduction measures to achieve objectives of both the CVPIA and Comprehensive Study programs.

**Dry Creek (Middletown)** - A Feasibility Study for flood damage reduction. The FCSA is expected to be signed in June 1999 with Lake County as the local sponsor.

**Firebaugh** - A Continuing Authorities Program (CAP), Section 208 Study. It will evaluate clearing and snagging for flood damage reduction along the main stem of the San Joaquin River in the vicinity of Firebaugh. The Design Report is being prepared by a consultant and is scheduled for completion in April 1999.

**Hamilton City** - A CAP, Section 205 Study for flood damage reduction. An Office Report found a setback levee alternative to be feasible. The Reclamation Board is the local sponsor for cost-sharing the completion of the Detailed Project Report (DPR). Continuation of studies is scheduled for August 1999.

**Kaweah River** - This project is in the PED Phase. The project increases flood storage in Terminus Lake by modifying the spillway. A decision document is being prepared to document change in spillway design from the Feasibility Report. The document scheduled for completion in April 1999. The project was authorized in WRDA 96.

**Lower Sacramento River Riparian Report** - Feasibility study. A Feasibility Cost Sharing Agreement (FCSA) and Escrow Agreement were signed on September 14, 1998. The study was initiated in February 1999.

**Merced County Streams** - This project is considering raising Burns Dam and Bear Dam, and construction of Haystack Dam. A General Revaluation Report (GRR) will be prepared in lieu of a Supplemental EIS to determine the proposed work for the Bear Creek Unit to complete this project.

**Middle Creek** - Feasibility Study analyzing the restoration of the floodplain of Middle Creek above Clear Lake. Lake County is the potential FCSA local sponsor. The FCSA is still under negotiation with signature expected in May 1999.

**Murphy Slough** - A CAP, Section 1135 Study focusing on riparian and other habitat restoration in the Murphy Slough area. The project is in the Plans and Specifications (P&S) Phase. P&S should be completed by April 1999. Construction contracts are scheduled for advertisement later in the spring of 1999.

**Pine Flat Environmental Restoration** - A Feasibility Study with the Kings River Conservation District as the local sponsor. The study is proposing improving fisheries resources in Pine Flat Reservoir and in the Kings River downstream. The draft report is scheduled for completion in November 1999.

**Prospect Island** - A CAP, Section 1135 Study which proposes to repair damaged island levees so that the interior of the island can be restored to various habitats. Ecosystem Restoration Report (ERR) is being prepared. Levee repairs are underway using CALFED funds. The ERR is scheduled for completion in April 1999.

**Rock Creek and Keefer Slough** - A CAP, Section 205 Study in the DPR Phase. Butte County is the local sponsor for cost-sharing the completion of the Detailed Project Report.

**Sacramento River Watershed** - A Section 503 Feasibility Study. The Section 905(b) Report was forwarded on November 16, 1998. The FCSA is under negotiation with the City and County of Sacramento as the proposed local sponsors.

**Sacramento-San Joaquin Delta** - The Delta special study is currently investigating methods proposed for improved levee construction. Careful coordination with the CALFED process is underway. A levee test section, to develop criteria for future levee improvements in the Delta, was completed in March 1999. DWR will monitor the test section for 12 months.

**San Joaquin River Basin, West Stanislaus** - This study is in the Feasibility Phase with Stanislaus County as the local sponsor. The project is investigating flood damage reduction along Oristimba Creek in Newman and Salado Creek in Patterson. Measures to be evaluated include detention basins and channel modification. The study will also investigate credit for prior work done by the County.

**South Fork Putah Creek Preserve** - A CAP, Section 1135 Study proposing riparian plantings between the levees of Putah Creek. The project is in the P&S Phase. The first contract is scheduled to be awarded in April 1999.

**South Sacramento Streams** - The project is in the PED Phase. It consists of levee and floodwall construction along streams in South Sacramento County. These streams eventually flow into the Beach Stone Lakes area which flows into the North Delta. P&S for the first contract are being prepared and are scheduled for completion in November 1999. The project has not been authorized.

**Stockton Metro - Flood Control** - A Feasibility Study to evaluate work already done by the local sponsor to determine if reimbursement is appropriate. A draft Section 211 Report is scheduled for completion in July 1999. The local sponsor has signed the PSP.

**Stockton Metro - Farmington** - A Feasibility Study to determine if the existing Farmington Dam Project should be sold to a local entity. The FCSA is scheduled for signing in April 1999.

**Strong & Chicken Ranch Slough** - FY-99 New Start Reconnaissance Study initiated in February 1999.

**Sutter Basin** - FY-99 New Start Reconnaissance Study initiated in February 1999.

**Tehama** - A CAP, Section 205 Study for flood damage reduction. It is in the DPR Phase. The Reclamation Board and Tehama City are the local sponsors cost-sharing completion of the Detailed Project Report. Studies will continue through 1999.

**Tule River** - The Feasibility Study is nearing completion. The project is moving into the PED Phase. The Draft Feasibility Report and EIS will undergo public review in April 1999. The proposed project is additional flood storage through modification of the spillway. The project is not authorized.

**Tuolumne River and Tributaries** - A Reconnaissance Study moving into the Feasibility Phase. The Tuolumne River 905(b) Appraisal Report was completed in September 1998, and was approved by HQUSACE in December 1998. The proposed measures for evaluation include detention/wetland habitat basin along Dry Creek; offstream multipurpose reservoir along Tuolumne River; levees; riparian corridor with low-flow meandering channel; nonstructural measures; channel modification; and re-operation of New Don Pedro Dam and Reservoir. The Tuolumne River Feasibility Study will examine re-operation of New Don Pedro Dam and Reservoir. The PSP is under preparation and scheduled for completion in March 1999. The estimated feasibility study cost is about \$3 million and should take about 3 years. The FCSA is scheduled to be signed in July 1999.

**Watershed Projects Inventory Project List** - The University of California at Davis maintains a list of ongoing projects throughout California. The Watershed Projects Inventory List includes the project title and purpose. The list is available via the Internet at <http://endeavor.des.ucdavis.edu/wpi/projectlist.asp>.

**West Sacramento** - A construction project to raise the east levees of Yolo Bypass to increase flood protection in West Sacramento. Several contracts are under construction with a consultant completing P&S for final contracts.

**White River, Poso Creek** - A FY-99 New Start Reconnaissance Study, began in January 1999.

**Yuba County Water Agency Supplemental Flood Control Program** - The Yuba County Water Agency (YCWA) is in the initial stages of identifying and analyzing prospective elements of a program to achieve a higher level of reliable flood protection for Yuba County. The stated goal of the program is “*to implement a practicable level of reliable flood protection to prevent loss of life, reduce property damage and ensure economic stability.*” To date, the YCWA has completed a public opinion poll regarding flood issues; completed a report recommending a higher level of protection; and has formed a Technical Committee to conduct engineering and environmental assessments on the feasibility of program elements. The identification of possible options is currently underway.